



Docket No.: OMY-0041  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Akira Kawahara et al.

Application No.: 10/516,823

Confirmation No.: 7306

Filed: June 1, 2005

Art Unit: 1641

For: DETECTION KIT, MEASUREMENT PLATE  
THEREFOR, DETECTION METHOD,  
EVALUATION METHOD, POLYCLONAL  
ANTIBODY TO FROG VITELLOGENIN  
AND MANUFACTURING METHOD  
THEREOF

Examiner: C. E. Foster

**INFORMATION DISCLOSURE STATEMENT (IDS)**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Submitted herewith on Form PTO-1449 or PTO/SB/08 is a listing of documents known to Applicant in order to comply with Applicant's duty of disclosure pursuant to 37 CFR 1.56. Applicant respectfully requests that the listed documents be considered by the Examiner and formally be made of record in the present application and that an initialed copy of Form PTO-1449 or PTO/SB/08 be returned in accordance with MPEP §609.

☒ A copy of each listed document is being submitted to comply with the provisions of 37 CFR §§1.97 and 1.98

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicant does not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* prior art reference against the claims of the present application.



The Patent Office is **NOT AUTHORIZED** to charge deposit account 18-0013 in the amount of \$180.00 under 37 CFR §§ 1.97(d)(2) and 1.17(p).

Dated: March 19, 2007

Respectfully submitted,

By 

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Correspondence Customer Number: 23353



PTO/SB/08A/B (09-06)

Approved for use through 03/31/2007. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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<b>Substitute for form 1449/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/516,823-Conf. #7306
				Filing Date	December 7, 2004
				First Named Inventor	Akira Kawahara
				Art Unit	1641
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	OMY-0041

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>		
	CA	G. Mosconi et al., "Seasonal Changes in Plasma Growth Hormone and Prolactin Concentrations of the Frog Rana esculenta", General and Comparative Endocrinology 93, pp.380-387 (1994).			
	CB	Nancy D. Denslow et al., "Vitellogenin as a Biomarker of Exposure for Estrogen or Estrogen Mimics", Ecotoxicology 8, pp.385-398 (1999).			
	CC	Naoshi Hiramatsu et al., "Transition of Serum Vitellogenin Cycle in Sakhalin Taimen (Hucho perryi), Comparative Biochemistry and Physiology. Vol.118C, No.2, pp.149-157 (1997).			
	CD	E. Hurter et al., "Validation of an ex Vivo Xenopus Liver Slice Bioassay for Environmental Estrogens and Estrogen Mimics", Ecotoxicology and Environmental Safety 53, pp.178-187 (2002).			
	CE	Naoko Mitsui et al., "Sandwich ELISAs for quantification of Xenopus laevis vitellogenin and albumin and their application to measurement of estradiol-17 $\beta$ effects on whole animals and primary-cultured hepatocytes", Comparative Biochemistry and Physiology Part C, 135, pp. 305-313 (2003).			
	CF	S. Jobling et al., "Detergent components in sewage effluent are weakly oestrogenic to fish: An in vitro study using rainbow trout (Oncorhynchus mykiss) hepatocytes, Aquatic Toxicology, 27, pp.361-372 (1993).			
	CG	Werner Kloas et al., "Amphibians as a model to study endocrine disruptors: II. Estrogenic activity of environmental chemicals in vitro and in vivo, The Science of the Total Environment 225, pp.59-68 (1999).			
	CH	International Preliminary Examination Report mailed on March 3, 2005.			

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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